

## WEST Search History





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<input type="checkbox"/>	L14	L13 and (optimal\$3 or optimiz\$4 or optimization)	11
<input type="checkbox"/>	L13	L12 and (weight\$4)	23
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<input type="checkbox"/>	L10	L9 and (puls\$3 or burst)	212
<input type="checkbox"/>	L9	L8 and (pwm or modulat\$4)	220
<input type="checkbox"/>	L8	L7 and (phase with difference)	375
<input type="checkbox"/>	L7	L6 and (angle or difference)	1226
<input type="checkbox"/>	L6	L5 and (flip\$4 or tip\$4 or rotat\$4 or nutat\$4)	1337
<input type="checkbox"/>	L5	L4 and (locat\$4 or locationally or position\$4)	1821
<input type="checkbox"/>	L4	L3 and ((space or spatial\$3) with (resolved or resolv\$3 or resolution or dependen\$4 or phase))	1892
<input type="checkbox"/>	L3	L2 and (antenna or antennea or probe or coil)	7748
<input type="checkbox"/>	L2	L1 and (field with (strength or flux or strong or density))	11320
<input type="checkbox"/>	L1	((magnetic adj resonance) or MRI or NMR)	202251

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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20040164737 A1

Using default format because multiple data bases are involved.

L14: Entry 1 of 11

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040164737  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040164737 A1

TITLE: Method for determining the B1 field strength in MR measurements

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Feiweier, Thorsten	Poxdorf		DE	

US-CL-CURRENT: 324/309; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw D
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☐ 2. Document ID: US 20030153826 A1

L14: Entry 2 of 11

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030153826  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030153826 A1

TITLE: Reduction of motion artifact in nmr images using spherical navigator signals

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jack, Clifford r	Rochester	MN	US	
Manduca, Armando	Rochester	MN	US	
Grimm, Roger	Rochester	MN	US	
Welch, Edward B	Rochester	MN	US	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D.
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☐ 3. Document ID: US 20020165349 A1

L14: Entry 3 of 11

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020165349  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020165349 A1

TITLE: Iron regulating protein -2 (IRP-2) as a diagnostic for neurodegenerative disease

PUBLICATION-DATE: November 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kirsch, Wolff M.	Redlands	CA	US	
Lennart, Anto	Loma Linda	CA	US	
Kelln, Wayne J.	Loma Linda	CA	US	
Kang, Dae-Kyung	Rockville	MD	US	
Levine, Rodney L.	Rockville	MD	US	
Rouault, Tracey A.	North Bethesda	MD	US	

US-CL-CURRENT: 530/350; 435/6, 435/7.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D.
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☐ 4. Document ID: US 6408201 B1

L14: Entry 4 of 11

File: USPT

Jun 18, 2002

US-PAT-NO: 6408201  
DOCUMENT-IDENTIFIER: US 6408201 B1

TITLE: Method and apparatus for efficient stenosis identification in peripheral arterial vasculature using MR imaging

DATE-ISSUED: June 18, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Foo; Thomas K. F.	Rockville	MD		
Ho; Vincent B.	North Bethesda	MD		

US-CL-CURRENT: 600/410; 324/300, 324/307, 382/128, 600/419, 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw D.
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☐ 5. Document ID: US 6265873 B1

L14: Entry 5 of 11

File: USPT

Jul 24, 2001

US-PAT-NO: 6265873

DOCUMENT-IDENTIFIER: US 6265873 B1

TITLE: Non-CPMG fast spin echo MRI method

DATE-ISSUED: July 24, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Le Roux; Patrick L.	Palaiseau			FR

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	DOC	Draw
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☐ 6. Document ID: US 6091243 A

L14: Entry 6 of 11

File: USPT

Jul 18, 2000

US-PAT-NO: 6091243

DOCUMENT-IDENTIFIER: US 6091243 A

TITLE: Water-fat imaging with direct phase encoding (DPE)

DATE-ISSUED: July 18, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xiang; Qing-San	Vancouver			CA
An; Li	Vancouver			CA

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	DOC	Draw
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☐ 7. Document ID: US 6005916 A

L14: Entry 7 of 11

File: USPT

Dec 21, 1999

US-PAT-NO: 6005916

DOCUMENT-IDENTIFIER: US 6005916 A

\*\* See image for Certificate of Correction \*\*

TITLE: Apparatus and method for imaging with wavefields using inverse scattering techniques

DATE-ISSUED: December 21, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Steven A.	Salt Lake City	UT		
Borup; David T.	Salt Lake City	UT		
Wiskin; James W.	Salt Lake City	UT		
Natterer; Frank	Muenster			DE
Wubeling; F.	Muenster			DE
Zhang; Yongzhi	Madison	WI		
Olsen; Scott Charles	Salt Lake City	UT		

US-CL-CURRENT: 378/87; 378/98, 600/425, 600/437

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawings
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☐ 8. Document ID: US 5910728 A

L14: Entry 8 of 11

File: USPT

Jun 8, 1999

US-PAT-NO: 5910728

DOCUMENT-IDENTIFIER: US 5910728 A

TITLE: Simultaneous acquisition of spatial harmonics (SMASH): ultra-fast imaging with radiofrequency coil arrays

DATE-ISSUED: June 8, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel Kevin	Cambridge	MA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawings
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☐ 9. Document ID: US 5019784 A

L14: Entry 9 of 11

File: USPT

May 28, 1991

US-PAT-NO: 5019784

DOCUMENT-IDENTIFIER: US 5019784 A

**\*\* See image for Certificate of Correction \*\***TITLE: Time symmetric pulse to uniformly rotate magnetization vectors by an arbitrary angle in the presence of large B1 inhomogeneities and resonance offsets

DATE-ISSUED: May 28, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garwood; Michael	Shorewood	MN		

Ugurbil; Kamil Maple Plain MN

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMK	Draw D
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☐ 10. Document ID: US 4812760 A

L14: Entry 10 of 11

File: USPT

Mar 14, 1989

US-PAT-NO: 4812760

DOCUMENT-IDENTIFIER: US 4812760 A

TITLE: Multi-dimensional selective NMR excitation with a single RF pulse

DATE-ISSUED: March 14, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bottomley; Paul A.	Clifton Park	NY		
Hardy; Christopher J.	Schenectady	NY		
O'Donnell; Matthew	Schenectady	NY		
Roemer; Peter B.	Schenectady	NY		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMK	Draw D
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☐ 11. Document ID: US 4694254 A

L14: Entry 11 of 11

File: USPT

Sep 15, 1987

US-PAT-NO: 4694254

DOCUMENT-IDENTIFIER: US 4694254 A

\*\* See image for Certificate of Correction \*\*TITLE: Radio-frequency spectrometer subsystem for a magnetic resonance imaging system

DATE-ISSUED: September 15, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vatis; Dimitrios	Schenectady	NY		
Smith; Lowell S.	Schenectady	NY		

US-CL-CURRENT: 324/309; 324/313, 324/314, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMK	Draw D
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Term	Documents
OPTIMIZATION	111228
OPTIMISATION	10194
OPTIMISATIONS	280
OPTIMIZATIONS	7326
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OPTIMALB	1
OPTIMALCO	1
OPTIMALCY	4
OPTIMALDO	1
OPTIMALE	49
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